

DRN-5532-414N16 Recorder 32ch 1.5U 1x4TB 16PoE

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BOSCH
Invented for life



- ▶ 32 IP channels with 320 Mbps incoming bandwidth
- ▶ 12 MP IP camera support for view and playback
- ▶ Real time live display for 16 channels @1080p or 4 channels @4k
- ▶ Extended rack-mount unit with advanced connections
- ▶ Separate internet and IP camera networks

Certifications and approvals

Standards

Alarm	EN 50130-5:2011, Alarm systems - Part 5: Environmental test methods, Class I, Fixed equipment
Lightning protection	To ALL long input / output - and supply-wiring. Alarm inputs and relay output, Video inputs and Outputs, dome-control outputs, power-cable, Audio In/Out. ± 0.5, 1kV line to line, ± 0.5, 1 and 2kV line to earth

EMC + Safety - Europe

EU Directives	2014/35/EU (LVD), 2014/30/EU (EMC), 2011/65/EU (RoHS)
EMC Emission	EN 55032:2012/AC2013, class B
EMC Immunity	EN 50130-4:2011/A1:2014
EMC mains Harmonics	EN 61000-3-2:2014
EMC Mains fluctuations	EN 61000-3-3:2013

EMC + Safety - Europe

LVD Safety	CB scheme + IEC/EN/UL 62368-1:2014/AC:2015
RoHS	EN 50581:2012

EMC + Safety - USA and Canada

EMC USA	47CFR part 15 (FCC), Class B
Safety USA (UL, cUL)	UL 62368-1, Edition 2, Dec 1, 2014
Safety Canada	CAN/CSA-C22.2 No. 62368-1

India

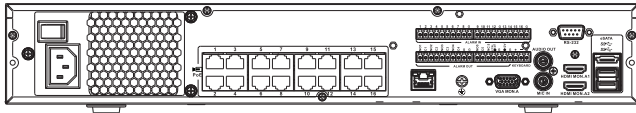
BIS (Bureau of Indian Standards)	BIS registration for external Power adapter (comes / packed with the main product)
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Australia

ACMA EMC	RCM logo on product label
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Region	Regulatory compliance/quality marks	
Australia	RCM	DOC SAL Variants
	RCM	DOC SAL
Europe	CE	ST-VS 2016-E-087
USA	UL	FCC & UL
	FCC	ST-VS 2016-E-088

Installation/configuration notes



DIVAR 5000 network back panel (16 PoE)

PoE	16 RJ45 ports (200 W; max. 25.5 W per port) for connecting max. 16 PoE cameras connected with DHCP configuration (max. 32 IP cameras)
	RJ45 Ethernet connection (10/100/1000Base-T according to IEEE802.3)
VGA MON.A	1 D-SUB (Monitor output)
HDMI MON.A1	1 HDMI (Monitor output in maximum 4k resolution)
HDMI MON.A2	1 HDMI (output for spot monitor that supports live multiscreen)
ALARM IN	16 screw terminal inputs, cable diameter AWG26-16 (0.4–1.29 mm)
ALARM OUT	6 screw terminal outputs, cable diameter AWG26-16 (0.4–1.29 mm)
KEYBOARD	Screw terminals, cable diameter AWG26-16 (0.4–1.29 mm)
AUDIO OUT	1 RCA (Audio output)
MIC IN	1 RCA (Audio input)
RS-232	DB9 male, 9-pin D-type
	Two USB (3.0) connectors for mouse or USB memory device; one USB (2.0) also on front panel
eSATA	For backup/memory device
Power input with On/Off switch	100~240 VAC, 50-60 Hz, 5 A, 350 W
	Ground connection

Parts included

Quantity	Component
1	Recorder
1	CD-ROM containing software licenses and user documentation
2	Power supply cables (120VAC US type; 230VAC Euro type)
	Terminal connector blocks
1	Hard disk mounting kit (including SATA cables, brackets and screws)
1	Optical USB mouse
1	19" mounting set (including brackets and screws)
1	IR remote Control with 2 AA (1.5 V) batteries
1	Ground screw
1	Keyboard cable
1	Loophrough cable
	Installation guides for Recorder, HDD, plus safety instructions

Technical specifications

Power	
AC input (without PoE)	100-240 VAC; 50-60 Hz; 1.9 A
AC input (with PoE)	100-240 VAC; 50-60 Hz; 5 A
RTC battery on main PCB	Lithium CR2032, 3 VDC
Maximum main power consumption (no HDD)	8.7 W without PoE 15.2 W with PoE
Maximum power consumption of PoE+ switch	185 W
Maximum power consumption (per PoE+ port)	25.5 W
Mechanical	
Dimensions (WxDxH)	440 x 408 x 76 mm (17.3 x 16.1 x 3.0 in)
Weight without PoE (excluding HDDs and DVD)	6.27 kg (13.8 lb) approx.

Weight with PoE switch (excluding HDDs and DVD)	6.37 kg (14.0 lb) approx.
Environmental	
Operating temperature (incl. HDD(s) and DVD)	+0°C to +40°C (+32°F to +104°F)
Storage temperature	-40°C to +70°C (-40°F to +158°F)
Operating humidity	<93% non-condensing
Storage humidity	<95% non-condensing
Video storage	
Internal (option)	Max. 4 SATA HDD or 2 SATA HDD + 1 DVD (R/RW) Max. capacity per HDD: 6 TB Max. supported speed per HDD: 6 Gb/s
External (option)	eSATA-connected storage device
Alarms and detections	
Motion detection set by camera	Essential or Intelligent Video Analytics (IVA), Motion +
Alarm activations	Video loss, motion detection, input alarm, system alarm
Events triggered by alarm	Recording, PTZ movement, alarm out, email, buzzer, screen message, Mon A and B activated, mobile push notification
Inputs	16 inputs configurable NO/NC, max. input voltage 12 VDC +/-10%
Outputs	5 relay outputs, 1 open collector
Relay contact	Max. rated, 30 VDC, 2 A continuous or 125 VAC, 1 A (activated)
Exporting	
DVD (optional)	Built-in DVD+R/RW writer
USB	Flash memory or external HDD (FAT32)
Network	Web Client software or Video Client
eSATA	External drive
Playback	
Multi-channel	Simultaneous 1/4/9/16 channels
Mode	Forward, reverse, slow play, fast play, frame-by-frame
Search	Time, channel, type, smart
Network	Video Client, Web client, App
Restrict	Restrict video by user rights for viewing

Playback	
Protection	Protect video against overwriting
Retention time	Automatically delete recordings after 1 to 365 days
Recording	
Decoding compression	H.265/H.264/MJPEG
Speed	Max. 60 IPS per channel, configurable
Bit rate	16 kbps to 24 Mbps per channel
Record interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec
Mode	Manual, Scheduled (regular, motion detection, alarm), Stop
Resolution IP camera	12MP, 8MP, 6MP, 5MP, 3MP, 1.3MP, 1080p, 720p
Network control	
Ethernet	RJ45 port (10/100/1000 Mbps)
PC software	Video Client, Web client
APPS	iPhone, Android
User access	Maximum 128 users. Bosch advises a maximum of 4 simultaneous connections. More connections can cause performance limitations.
Protocols	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS/DDNS, IP Filter, PPPoE, FTP
Video performance	
Maximum IP camera channels	32
Maximum incoming bandwidth	320 Mbps
Maximum recording bandwidth	320 Mbps
Maximum transmission bandwidth	320 Mbps
Display	
Resolution	3840×2160, 1920×1080, 1280×1024, 1280×720, 1024×768
OSD	Camera title, Time, Video loss, Motion detection, Recording, PTZ

Audio

MIC Input	1 channel (via RCA) 200 to 3000 mV, 10 kOhm
Output	1 channel (via RCA) 200 to 3000 mV, 5 kOhm
Direction	Bidirectional (audio input and output connected via device)

Ordering information**DRN-5532-414N16 Recorder 32ch 1.5U 1x4TB 16PoE**

High-resolution recorder for network surveillance systems.

32 IP camera channels

16-port PoE switch

1 HDD (4 TB)

Order number **DRN-5532-414N16**

Accessories**DVR-XS200-A HDD expansion 2TB**

Storage expansion kit. 2 TB

Order number **DVR-XS200-A**

DVR-XS300-A HDD expansion 3TB

Storage expansion kit. 3 TB

Order number **DVR-XS300-A**

DVR-XS400-A HDD expansion 4TB

Storage expansion kit. 4 TB

Order number **DVR-XS400-A**

DVR-XS600-A HDD expansion 6TB

Storage expansion kit. 6 TB

Order number **DVR-XS600-A**

DVR-XS-DVD-B DVD writer expansion B

DVD writer Expansion kit B

Order number **DVR-XS-DVD-B**

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